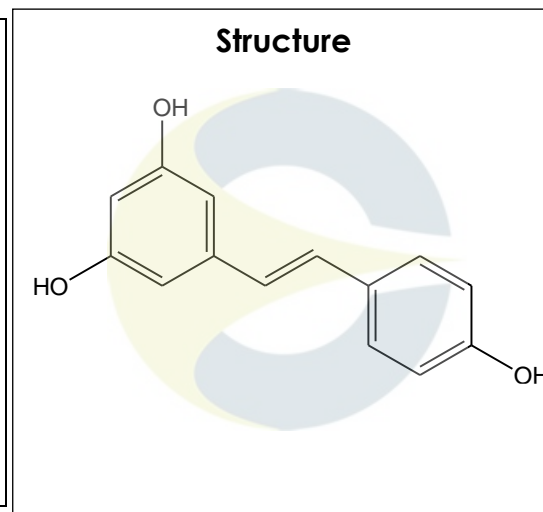


Certificate of Analysis

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PRODUCT NAME	Resveratrol
PART NUMBER	00018090
STANDARD TYPE	Primary (P)
LOT NUMBER	00018090-014
REPORT NUMBER	CDXA-RSS-4701-02
SAMPLE NUMBER	CDXA-12-8635
DATE OF SAMPLE	11/28/2012
DATE OF RE-EVALUATION	11/09/2016 (1 st); 01/07/2021 (2 nd)
DATE OF REPORT	01/27/2021



CHEMICAL NAMES	E-2-(3,5-Dihydroxyphenyl)-1-(4-hydroxyphenyl)ethylene; 3,4',5-Stilbenetriol; 5-[2-(4-Hydroxyphenyl)ethenyl]-1,3-benzenediol; 3,4',5-Trihydroxystilbene; trans-Resveratrol
CHEMICAL FORMULA	C ₁₄ H ₁₂ O ₃
MOLECULAR WEIGHT (MW)	228.24
CHEMICAL FAMILY	Stilbenoids
CAS NUMBER	[501-36-0]
EC#(EINECS)	610-504-8
RTECS	CZ8987000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.6%
HPLC	0.700.10.2.METH22	≥ 90%	99.7%
NMR	99.1-CD-1.0-000122	Conforms to structure	Conforms to structure
Mass Spectrum	Direct Infusion, ESI (-)	Conforms	Conforms
Residual Solvent	99.1-CD-6.0-0000115	NA	IPA – 0.1%
Water	0.700.12.37	NA	ND
Appearance	NA	NA	Off-white powder

ADJUSTED PURITY: 99.6% IS BASED ON (100 - 0.1 SOLVENTS - 0.0 WATER) X 99.7% HPLC

STORAGE CONDITIONS

STORAGE	Room Temperature in a dry place.
EXPIRATION DATE	01/2026 under the above conditions.

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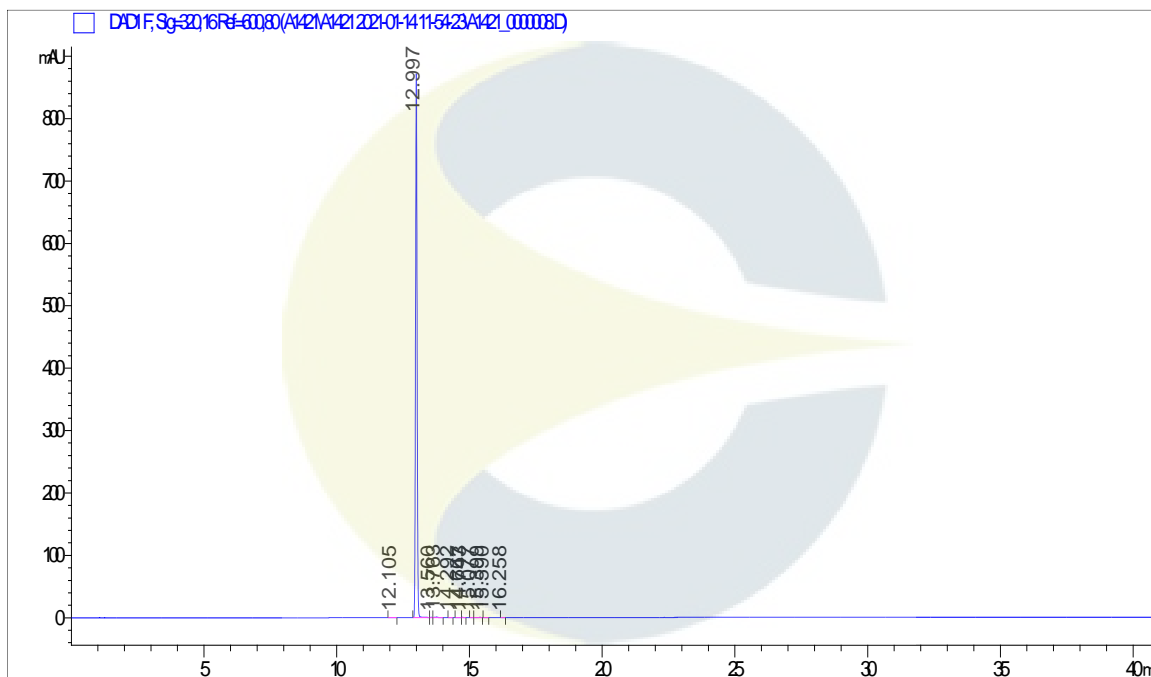
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ANALYTICAL CONDITIONS

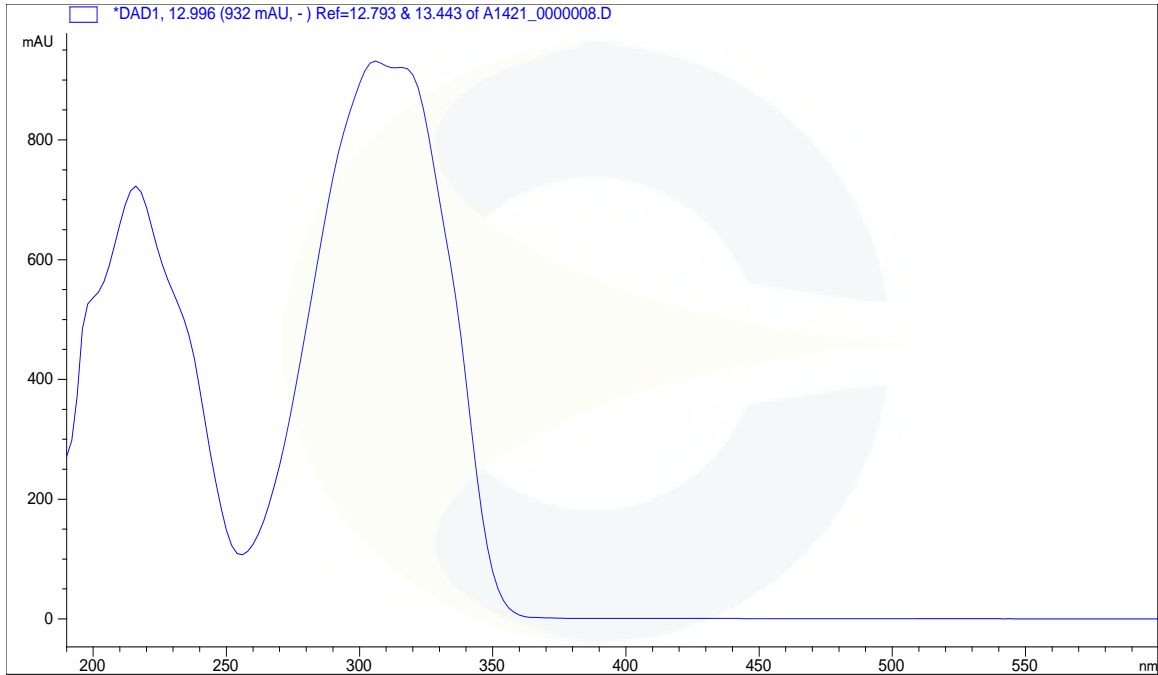
INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AGILENT 6510 QTOF
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
MOBILE PHASE	A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile; Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	0.2 µL
INJECTION CONC.	1.1 mg/mL in Methanol
DETECTION	320 ± 8 nm

HPLC CHROMATOGRAM OF RESVERATROL (CDXA-12-8635)

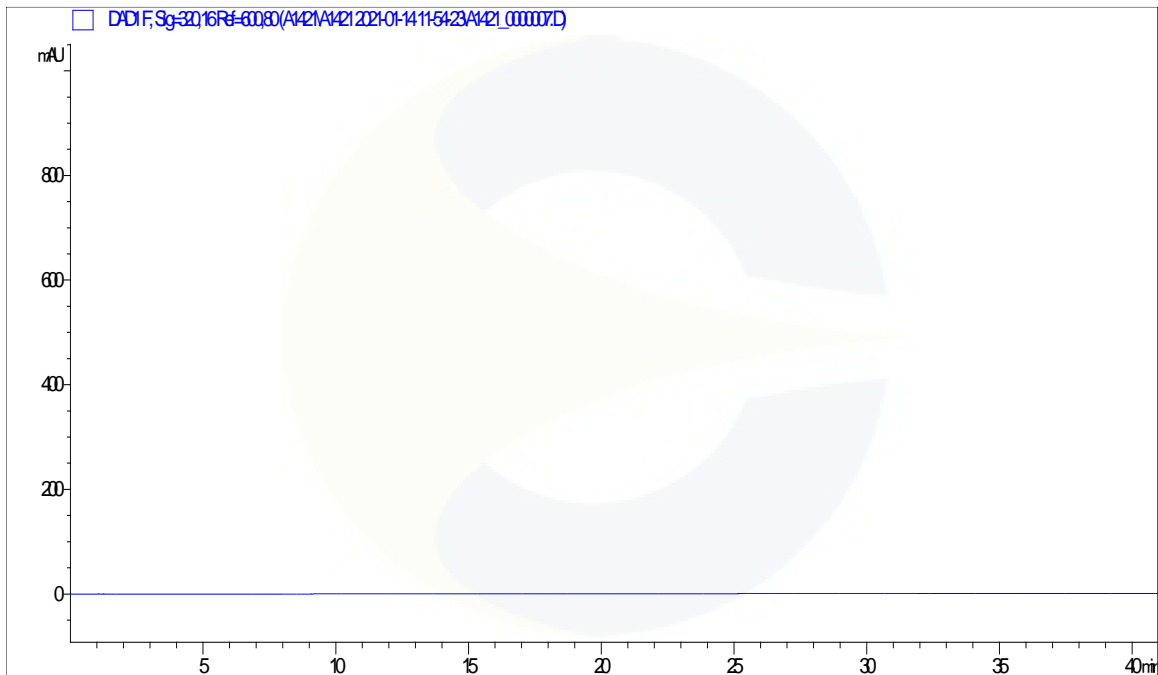


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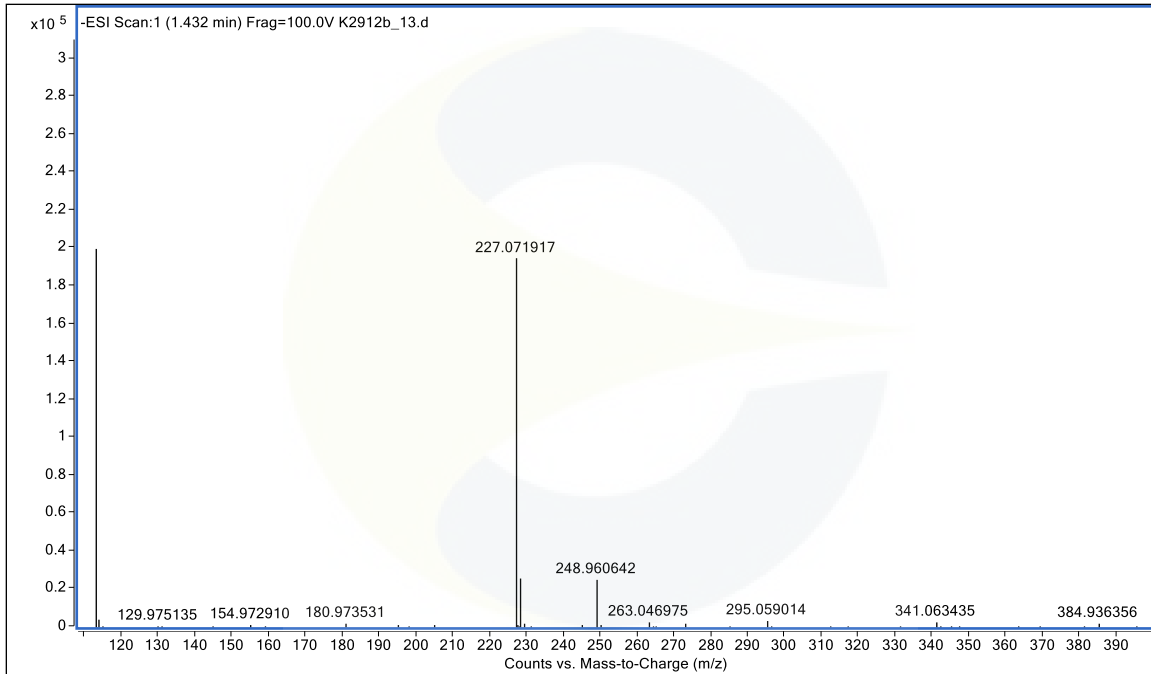
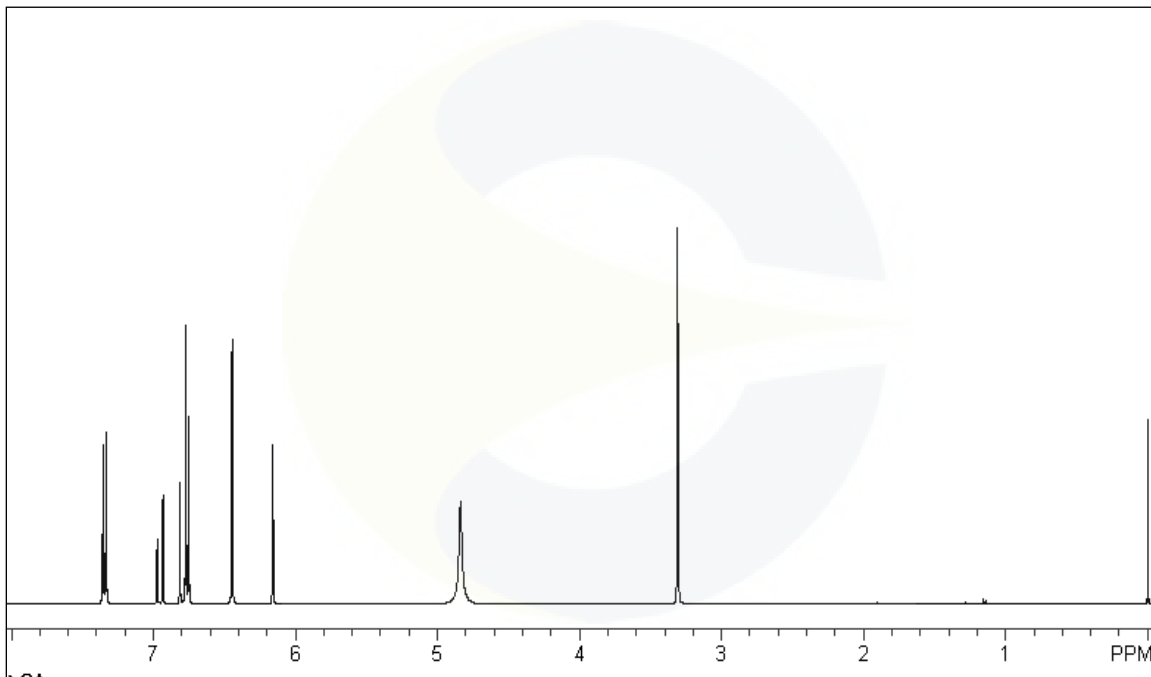
UV SPECTRUM AT 13.0 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK

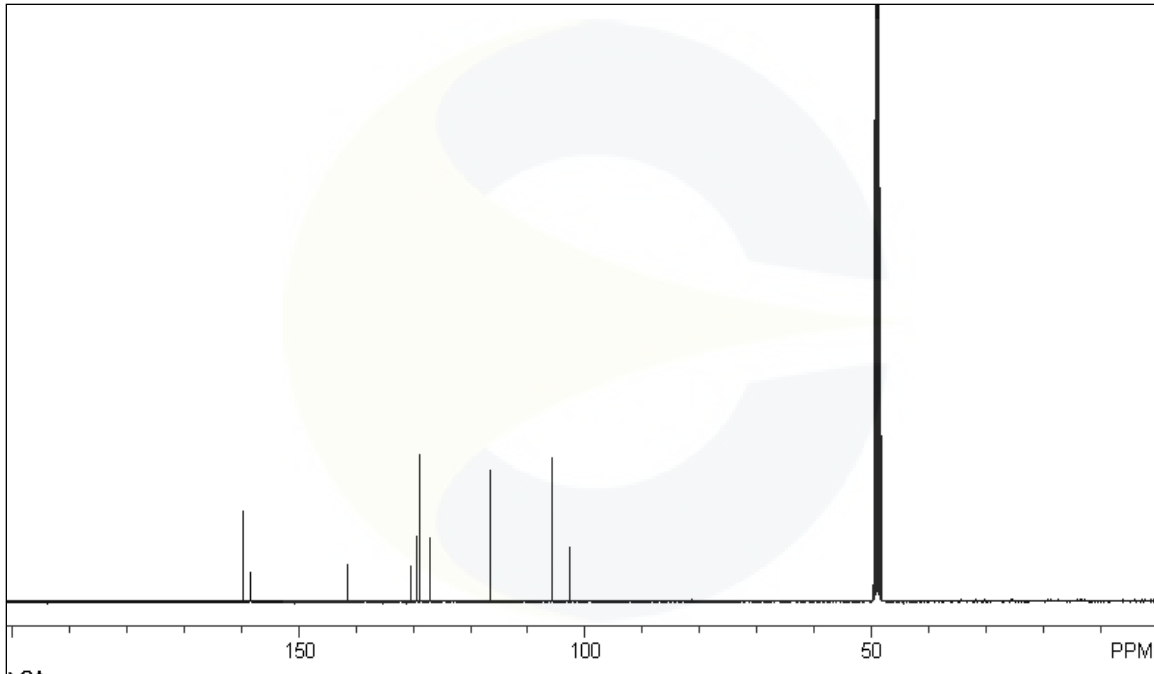


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MASS SPECTRUM OF RESVERATROL (CDXA-12-8635)**¹H-NMR SPECTRUM OF RESVERATROL (CDXA-12-8635) IN CD₃OD**

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¹³C-NMR SPECTRUM OF RESVERATROL (CDXA-12-8635) IN CD₃OD



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